



OLD Engineering Services Industry Forum

SR 400 Express Lanes – PI 0001757, Fulton/Forsyth
I-285 East Wall Express Lanes – PI 0013914, DeKalb
I-285/I-20 East Interchange – PI 0013915, DeKalb

April 13, 2017

Joe Carpenter, PE – Division Director of P3

Tim Matthews, PE – Senior Design-Build Project Manager

Stephen Lively – Program Delivery Manager, Major Projects

Curtis Scott – Engineering Services Acquisition Manager

Disclaimer Statement

At this meeting the Department will provide information about the project's delivery goals, anticipated scope, anticipated Design-Build procurement process, and potential risks. Participants will be encouraged to ask questions during this meeting; however, **any information provided by the Department shall be considered as informational only and is subject to change.**

Today's Agenda

- MMIP Overview
- Engineering Services for Office of Innovative Delivery (OID)
- Disadvantaged Business Enterprise (DBE)
- SR 400 Express Lanes
- I-285 East Wall Express Lanes
- I-285/I-20 East Interchange
- Open Discussion



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Major Mobility Investment Program –
Delivering the Governor's Promise to Georgians

11 MMIP Projects



**3 Major Interchange
Projects**



**4 Major Express
Lanes Projects**



**3 Major Highway
Widening Projects**



**1 Commercial
Vehicle Lanes Project**



MMIP Projects

Interchange Reconstruction:

- I-16/I-95 Interchange
- I-285/I-20 West Interchange
- I-285/I-20 East Interchange

Express Lanes:

- Revive 285 Express Lanes
- SR 400 Express Lanes
- I-285 East Wall Express Lanes
- I-285 West Wall Express Lanes

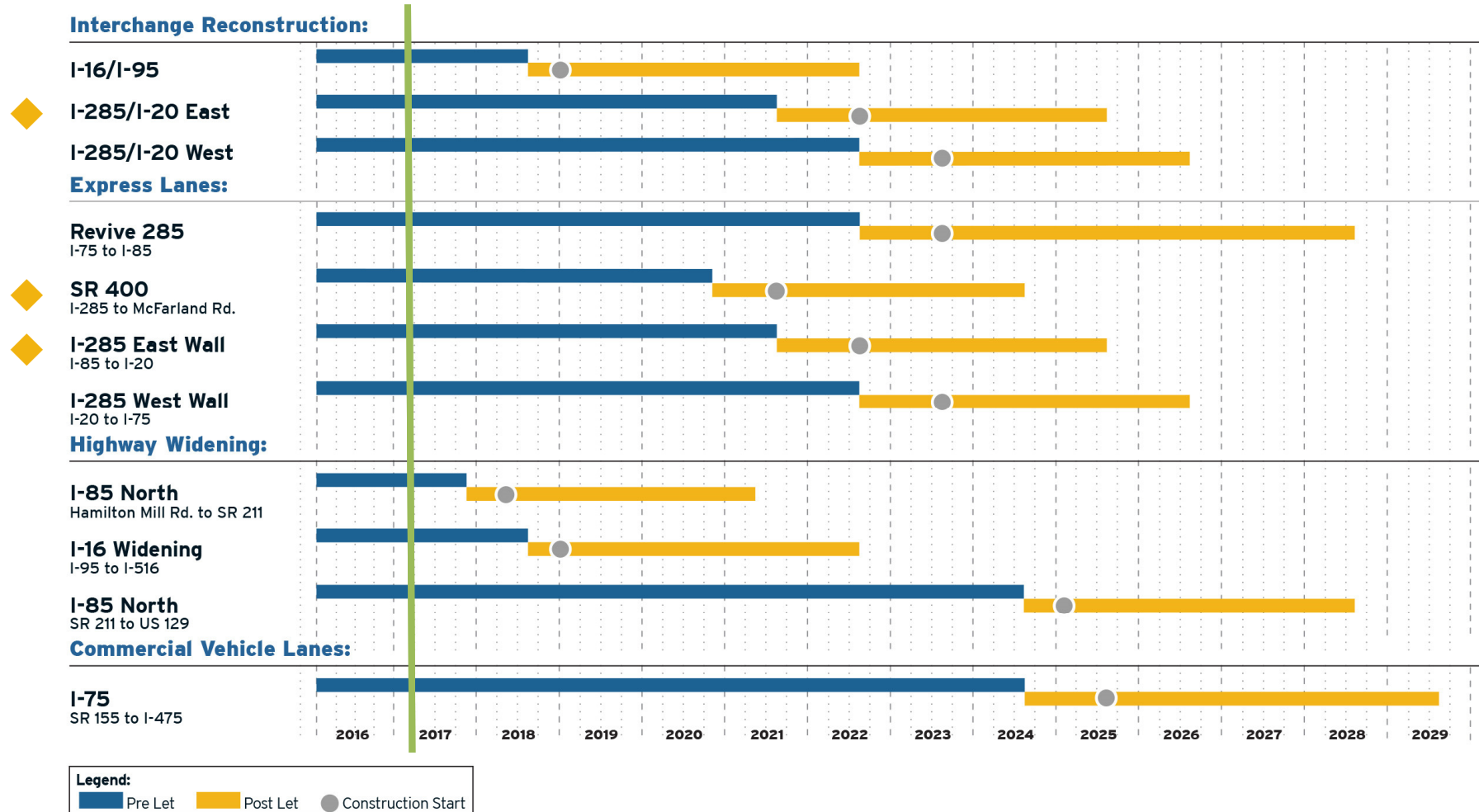
Highway Widening:

- I-85 North Widening
- I-16 Widening
- I-85 North Widening

Commercial Vehicle Lanes:

- I-75 Commercial Vehicle Lanes

MMIP Schedule



Consultant Opportunities

| | Public Notice Advertisement (PNA) | Request for Qualifications (RFQ) | Awarded |
|--|--------------------------------------|-------------------------------------|-------------|
| Innovative Delivery | | | |
| Program Management Consultant (PMC) | ✓ | ✓ | ✓ |
| Programmatic General Engineering Consultant (GEC) | ✓ | ✓ | ✓ |
| Programmatic Construction Engineering & Inspection (CEI) | ✓ | May 2017 | Fall 2017 |
| Right-of-Way Service Provider | October 2017 | November 2017 | Spring 2018 |
| Major Mobility Investment Program | | | |
| I-85 Widening | ✓ | ✓ | ✓ |
| ◆ SR 400 Express Lanes | ✓ | April 2017 | Summer 2017 |
| ◆ I-285 East Wall | ✓ | April 2017 | Summer 2017 |
| ◆ I-285/I-20 East Interchange | ✓ | April 2017 | Summer 2017 |
| 16/95 Interchange | June 2017 | July 2017 | Winter 2017 |
| I-285 West Wall | November 2017 | December 2017 | Spring 2018 |
| I-285/I-20 West Interchange | November 2017 | December 2017 | Spring 2018 |
| I-75 Commercial Vehicle Lanes | November 2017 | December 2017 | Spring 2018 |
| Revive 285 | Summer 2021 | Summer 2021 | Spring 2022 |

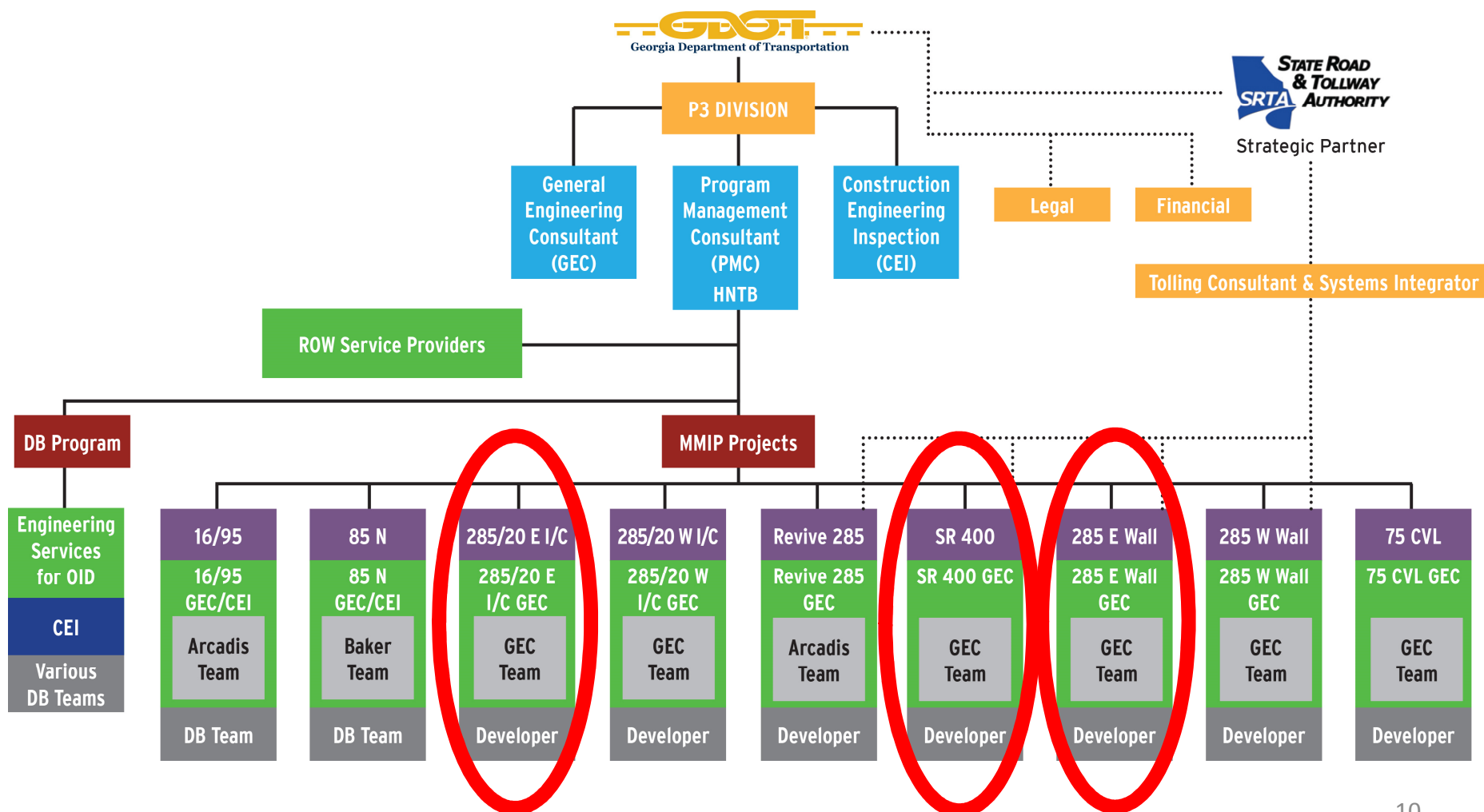


Engineering Services for Office of Innovative Delivery

Tim Matthews, PE

Senior Design-Build Project Manager

Program Delivery Model- PMC & GECs



Opportunity Conflicts

1. SR 400 Express Lanes – GEC
2. SR 400 Express Lanes – Developer Team
3. I-285 East Wall Express Lanes – GEC
4. I-285 East Wall Express Lanes – Developer Team
5. I-285/I-20 East Interchange – GEC
6. I-285/I-20 East Interchange – Developer Team

Not Allowable

- 1 and 2
- 3 and 4
- 5 and 6

Note: A GEC on any given project cannot participate with a Developer on the same project



GEC Roles & Responsibilities

Pre-Let

- Traffic Studies & Analyses
- Concept
- Survey Database
- Environmental/Public Involvement
- Costing Plans
- Right-of-Way Plans
- Estimating
- Phase I/II, as needed
- Drainage studies
- P3 Procurement Support - Technical

Post-Let

- P3 Developer Submittal Reviews
- Environmental Re-Evaluation
- Permit Reviews
- Co-Location
- Owner's Verification CEI – OV/CEI

Anticipated Area Classes for the Prime

Area Class:

3.05 Multi-lane Urban Interstate Limited Access Design

Anticipated Area Classes for Subconsultants

| | | |
|--|--|--|
| 1.06(a) NEPA | 3.06 Traffic Operations Studies | 5.04 Aerial Photography |
| 1.06(b) History | 3.07 Traffic Operations Design | 5.05 Aerial Photogrammetry |
| 1.06(c) Air Quality | 3.08 Landscape Architecture Design | 5.07 Cartography |
| 1.06(d) Noise | 3.09 Traffic Control Systems Analysis, Design and Implementation | 5.08 Overhead-Subsurface Utility Engineering SUE |
| 1.06(e) Ecology | 3.10 Utility Coordination | 6.01a Soil Survey Studies |
| 1.06(f) Archaeology | 3.12 Hydraulic and Hydrological Studies (Roadway) | 6.01b Geological and Geophysical Studies |
| 1.06(g) Freshwater Aquatic Surveys | 3.13 Bicycle and Pedestrian Facility Design | 6.02 Bridge Foundation Studies |
| 1.06(h) Bat Surveys | 3.15 Highway Lighting | 6.03 Hydraulic and Hydrologic Studies (Soils and Foundation) |
| 1.07 Attitude, Opinion, and Community Value Studies (Public Involvement) | 4.01(a) Minor Bridge and Miscellaneous Highway Structure | 6.04(a) Laboratory Materials Testing |
| 1.09 Location Studies | 4.02 Major Bridge Design | 6.04(b) Field Testing of Roadway Construction Materials |
| 1.10 Traffic Analysis | 4.04 Hydraulic & Hydrological Studies (Bridges) | 6.05 Hazardous Waste Site Assessment Studies |
| 3.02 Two-Lane or Multi-Lane Urban Roadway Design | 5.01 Land Survey | 8.01 Construction Engineering and Supervision |
| 3.03 Multi-Lane Urban Roadway Widening and Reconstruction | 5.02 Engineering Survey | 9.01 Erosion, Sedimentation, and Pollution Control Plan |
| | 5.03 Geodetic Surveying | 9.03 Field Inspections for Compliance of Erosion and Sedimentation Control Devices |

GEC Key Team Leads

Pre-Let Services

1. Roadway Lead
2. Structural Lead
3. Environmental Lead
4. Estimating Lead
5. Utilities Lead

Post-Let Services

1. Roadway Lead
2. Structural Lead
3. Environmental Lead
4. Utilities Lead
5. Geotechnical Lead
6. Traffic Operations Lead
7. O&M Lead (thru final acceptance)*
8. Construction Lead
9. **OV/CEI Team**
 - Project Resident Engineer
 - Assistant Project Resident Engineer
 - Roadway Project Engineer
 - Bridge Project Engineer

* SR 400 Express Lanes only

Owner's Verification CEI (OV/CEI)

- Similar approach to Northwest Corridor and 285/400 Interchange
- Oversight Inspection and Verification Sampling and Testing as per 23 CFR 637(b)
- Observe work and report significant discrepancies
- Monitor the Developer's CEI to ensure conformance to contract

DBE Goal and Mentoring Program

- 15% DBE Goal
- GEC Mentoring Program
 - RFQ may require Mentoring Program implementation plan



Projects Overview



SR 400 Express Lanes



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Highway Widening:

- I-85 North Widening
- I-16 Widening
- I-85 North Widening

Commercial Vehicle Lanes:

- I-75 Commercial Vehicle Lanes



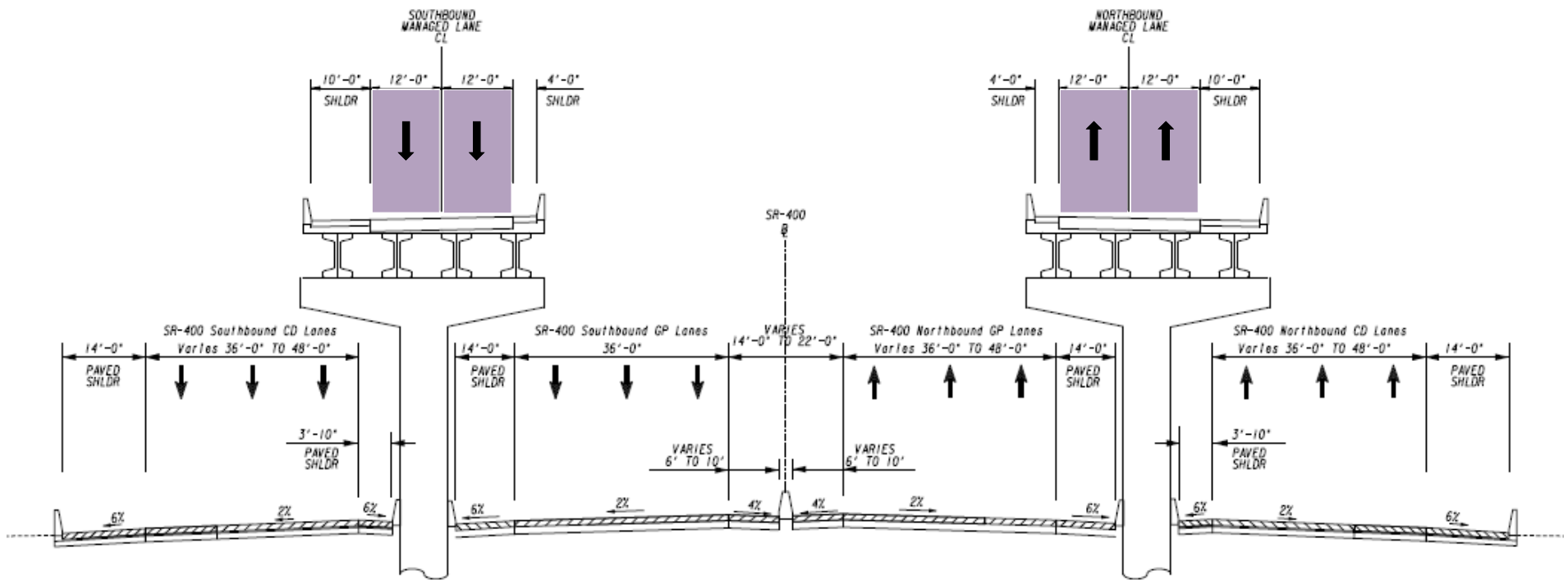
SR 400 Express Lanes Overview

- Anticipate Design Build Finance Operate Maintain (DBFOM) delivery method – Availability Payment Approach
- Two Express Lanes in each direction along SR 400 between I-285 and McGinnis Ferry Rd
- One Express Lane in each direction from McGinnis Ferry Road to McFarland Road
- Will directly connect to Revive 285
- Intermediate access points to be determined
 - **Estimated Cost:** \$1.8 Billion*
 - **Est. Construction Letting:** Fall 2020

* Planning level cost estimate and does not include finance costs.

SR 400 - Typical Roadway Section

- I-285 N to Spalding Drive
- Two Express Lanes in each direction (illustrative example)



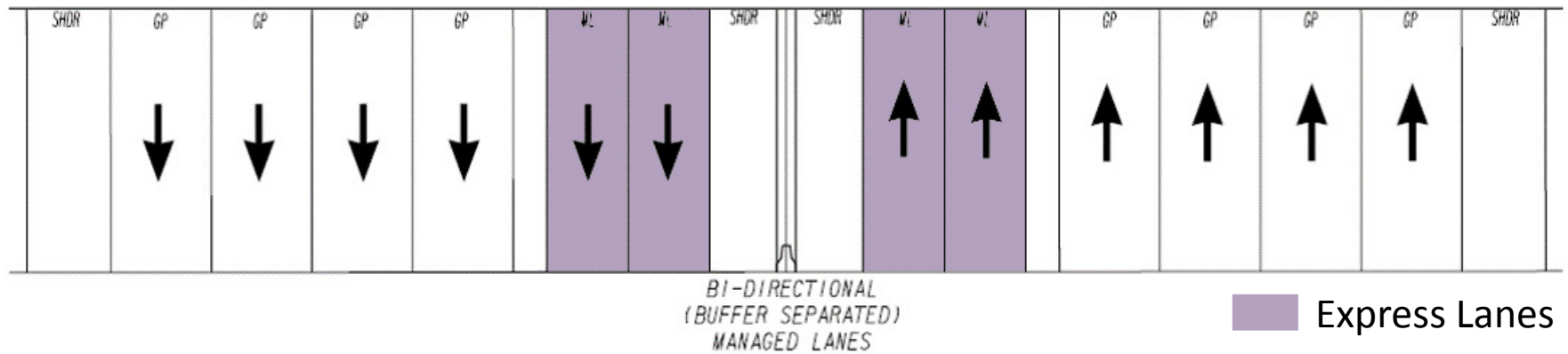
TYPICAL SECTION

PROPOSED SR 400 AERIAL MANAGED LANES
& SR 400 COLLECTOR DISTRIBUTOR SYSTEM

 Express Lanes

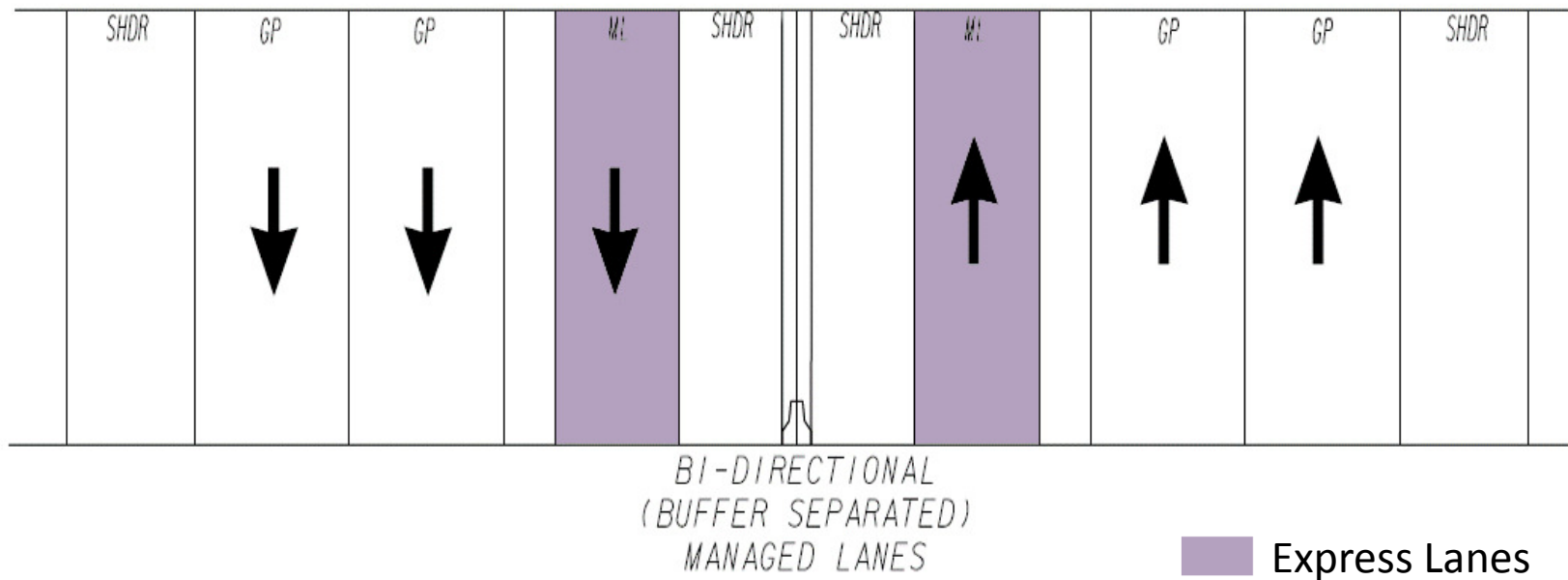
SR 400 Express Lanes

- Spalding Drive to McGinnis Ferry Road
- Two Express Lanes in each direction (illustrative example)



SR 400 Express Lanes

- McGinnis Ferry Road to McFarland Road
- One Express Lane in each direction (illustrative example)



SR 400 Project Status

- Scoping Phase
 - Traffic analysis
 - Access testing
 - Coordination with Locals and MARTA
 - Environmental field work
- GEC Procurement



I-285 East Wall Express Lanes



MMIP Projects

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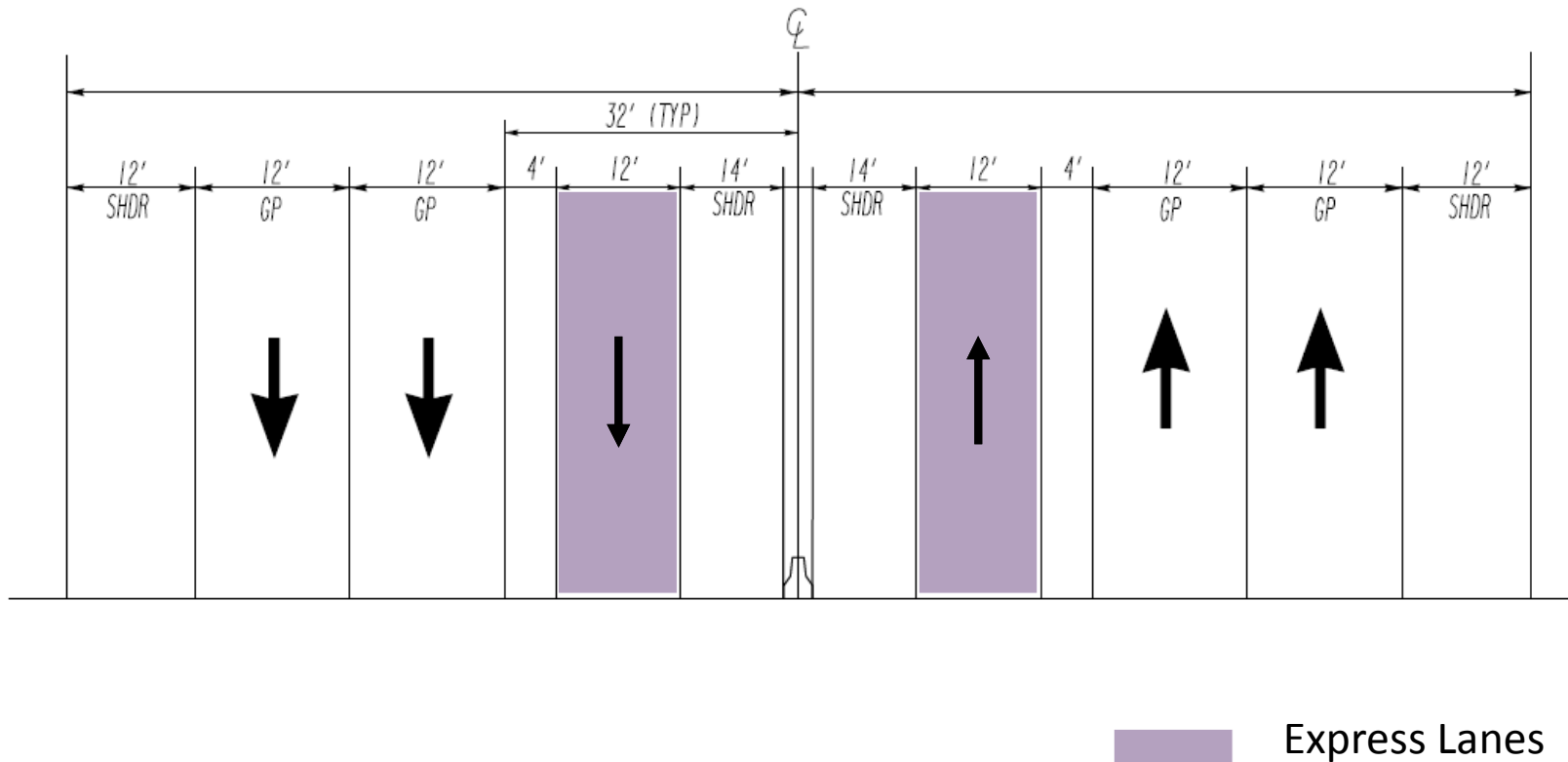
I-285 East Wall Project Overview

- Anticipate Design Build Finance (DBF) delivery method
- One Express Lane in each direction between I-20 and I-85
- Express Lane separated from the general purpose lanes through the use of delineators and pavement striping
- Access to the Express Lanes via direct access ramps connecting to the surrounding arterial system and slip ramp access to adjacent general purpose lanes
 - **Estimated Cost:** \$580 Million*
 - **Est. Construction Letting:** Summer 2021

* Planning level cost estimate and does not include finance costs.

I-285 East Wall Express Lanes

- I-85 to I-20
- One Express Lane in each direction (Illustrative example)





I-285 East Wall Project Status

- Scoping Phase
 - Preliminary schematic drawings being developed
 - Toll network study
- GEC Procurement



I-285/I-20 East Interchange



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Highway Widening:

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- I-85 North Widening

Commercial Vehicle Lanes:

- I-75 Commercial Vehicle Lanes



I-285/I-20 East Interchange Overview

- Anticipate Design Build Finance (DBF) delivery method
- Widening and operational improvements
- Will not preclude future Express Lane connections between I-285 and I-20
 - **Estimated Cost:** \$475 Million* (does not include costs associated with Express Lane connections)
 - **Est. Construction Letting:** Summer 2021

* Planning level cost estimate and does not include finance costs.

I-285/I-20 East Interchange Overview

- In addition, the project may include:
 - One westbound auxiliary lane from Panola Road to Wesley Chapel Road & the construction of westbound Collector-Distributor (CD) lanes between Wesley Chapel Road & the I-20/I-285 interchange.
 - A westbound auxiliary lane between Lithonia Industrial Boulevard & Panola Road.
 - Reconstruction of the Miller Road Overpass Bridge to accommodate the westbound auxiliary lane.
 - I-20 eastbound improvements to include construction of one eastbound auxiliary lane from Panola Road to Lithonia Industrial Boulevard.
 - Reconstruction of the Fairington Road/DeKalb Medical Parkway Overpass Bridge to accommodate the eastbound auxiliary lane.
 - Proposed interchange may include Express Lane connections in the future.



I-285/I-20 East Interchange Project Status

- Previous I-20 Managed Lanes Study
- GEC Procurement

Project Schedules

Major Mobility Investment Program Timeline

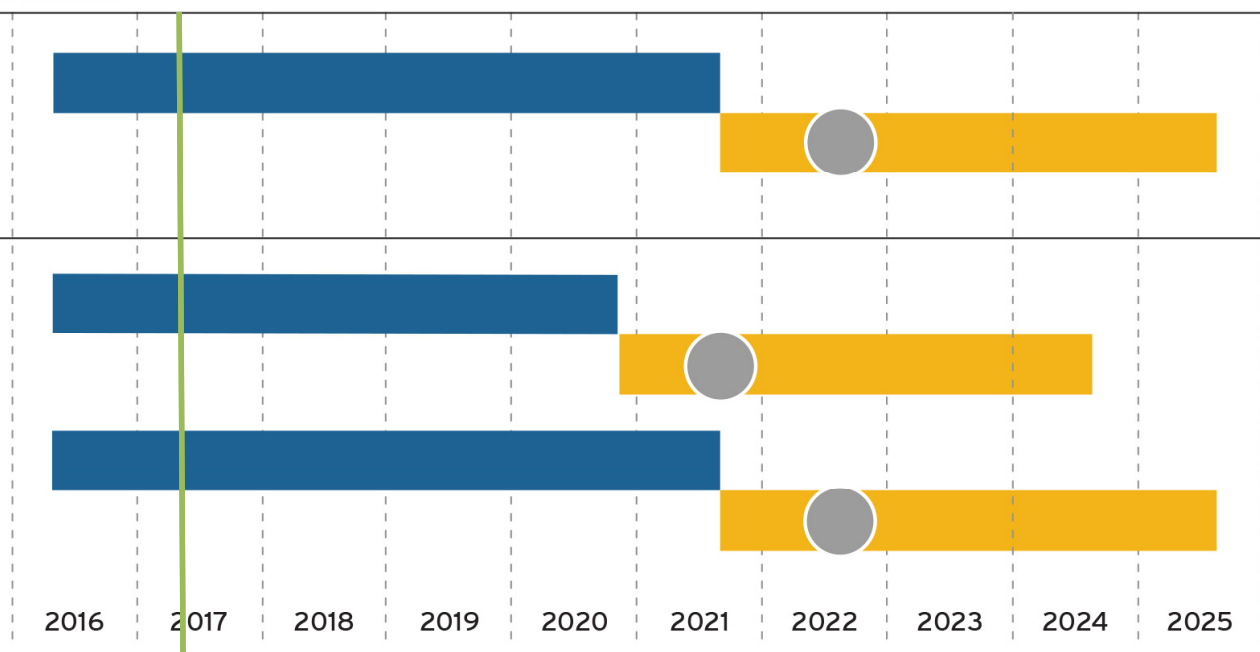
Interchange Reconstruction:

I-285/I-20 East Interchange

Express Lanes:

SR 400 Express Lanes
I-285 to McFarland Rd.

I-285 East Wall Express Lanes
I-85 to I-20



Legend:

Pre Let Post Let Construction Start

Anticipated Procurement Schedule (Three GEC Opportunities)

| | | |
|--|--------------------|-----------------|
| a. GDOT issues Public Notice Advertisement (PNA) | 03/24/2017 | ----- |
| b. Industry Forum – GDOT | 04/13/2017 | 10:00 AM |
| c. GDOT issues Request for Qualifications (RFQ) | 04/21/2017 | ----- |
| d. Anticipated Award of GECs | August 2017 | ----- |

Tentative dates and subject to change. Refer to RFQ.

Questions & Answers

**Program Information and
Contract Opportunities:**
www.dot.ga.gov/PS/Innovative